CONTENTS
Volume 24

Number 1, July 1985

EFFECTS OF CHRONIC TREATMENT WITH A GnRH AGONIST ON OESTROUS BEHAVIOUR AND ON THE SECRETION OF LH AND PROGESTERONE IN THE EWE
H. Dobson 1

PARTURITION CONTROL IN SOWS WITH A PROSTAGLANDIN ANALOGUE (ALFAPROSTOL)
M.J. Martin, T.C. Meisinger, W.L. Flowers, T.C. Cantley, and B.N. Day..... 13

SEMEN CHARACTERISTICS, MATING PERFORMANCE AND SERUM TESTOSTERONE IN RAMS FED SEWAGE SOLIDS
S.M. O'Neill and D.M. Hallford..... 21

GENITAL TRACT PRESSURES IN MARES. II. CHANGES INDUCED BY OXYTOCIN AND PROSTAGLANDIN $F_{2\alpha}$
P.J. Goddard and W. Edward Allen..... 35

A NEW PROCEDURE FOR THE CRYOPRESERVATION OF EQUINE EMBRYOS
N.P. Slade, T. Takeda, E.L. Squires, R.P. Elsden, and G.E. Seidel, Jr. 45

EFFECTS OF ACTIVE IMMUNIZATION OF THE RAM AND BULL AGAINST LUTEINIZING HORMONE
B.D. Schanbacher..... 59

EMBRYONIC LOSS IN MARES: INCIDENCE AND ULTRASONIC MORPHOLOGY
O.J. Ginther, D.R. Bergfelt, G.S. Leith, and S.T. Scraba..... 73

EMBRYONIC LOSS IN MARES: NATURE OF LOSS AFTER EXPERIMENTAL INDUCTION BY OVARIECTOMY OR PROSTAGLANDIN $F_{2\alpha}$
O.J. Ginther..... 87

DELAYED FOLLICULAR DEVELOPMENT AND OVULATION FOLLOWING INHIBITION OF FSH WITH EQUINE FOLLICULAR FLUID IN THE MARE
D.R. Bergfelt and O.J. Ginther..... 99

A COMPARISON BETWEEN CERVICAL DIMENSIONS OF PREGNANT AND NONPREGNANT SANTA GERTRUDIS AND BOS TAURUS COWS
D.D. Varner, K. Hinrichs, M.C. Garcia, H.G. Osborne, T.L. Blanchard, and R.M. Kenney..... 109

EFFECT OF CALF REMOVAL ON SERUM LUTEINIZING HORMONE AND CORTISOL CONCENTRATIONS IN POSTPARTUM BEEF COWS
C.S. Whisnant, T.E. Kiser, and F.N. Thompson..... 119

Number 2, August 1985

THERIOGENOLOGY: FROM CONCEPT TO ACTUALITY
D.E. Bartlett..... 131

BOOK REVIEW: PROSTAGLANDINS IN ANIMAL REPRODUCTION
R.H. Foote..... 147

BOOK REVIEW: IMMUNOLOGICAL ASPECTS OF REPRODUCTION IN MAMMALS
P.J. Hansen..... 149

CONTROLLING ESTRUS IN DAIRY COWS - A COMPARATIVE FIELD STUDY
H.J. Voss and W. Holtz..... 151

FACTORS ASSOCIATED WITH NEONATAL LAMB MORTALITY
E.M. Huffman, J.H. Kirk, and M. Pappaioanou..... 163

SUPEROVULATION OF BEEF HEIFERS WITH PERGONAL (HMG): A DOSE RESPONSE TRIAL
M.R. McGowan, M. Braithwaite, W. Jochle, and R.J. Mapletoft..... 173

TESTOSTERONE SECRETION IN YOUNG AND ADULT BUFFALO BULLS
D. Gunarajasingam, R. Rajamahendran, B.R. Downey, and P.C. Laguë..... 185

NORMAL DEVELOPMENT OF FETUSES RESULTING FROM HOLSTEIN SEMEN PROCESSED FOR SEX SEPARATION
R.H. Foote..... 197

BLOOD TYPING INVALIDATES ALLEGED EVIDENCE OF FERTILITY OF XO MARE
A.T. Bowling..... 203

TREATMENT OF OVARIECTOMIZED EWES WITH BOVINE FOLLICULAR FLUID DECREASES SECRETION OF FSH WITHOUT CHANGING SECRETION OF LH
K.F. Miller and D.J. Bolt..... 211

ASSOCIATIONS OF SCROTAL CIRCUMFERENCE WITH SEMEN TRAITS IN YOUNG BEEF BULLS
T.A. Gipson, D.W. Vogt, J.W. Massey, and M.R. Ellersieck..... 217

THE INFLUENCE OF SOME SAMPLE HANDLING FACTORS ON PROGESTERONE AND TESTOSTERONE ANALYSIS IN GOATS
H.A. Fahmi, N.B. Williamson, A. Tibary, and R.L. Hegstad..... 227

BODY COMPOSITION OF BEEF HEIFERS AT PUBERTY
A.L. Brooks, R.E. Morrow, and R.S. Youngquist..... 235

NON-SURGICAL EMBRYO TRANSFER AND LIVE BIRTH IN A LLAMA
D. Wilson Wiepz and R.J. Chapman..... 251

EFFECTS OF HIGH AMBIENT TEMPERATURE ON RESPIRATION RATE, RECTAL TEMPERATURE, FETAL DEVELOPMENT AND THYROID GLAND ACTIVITY IN TROPICAL AND TEMPERATE BREEDS OF SHEEP
T.T. Ross, L. Goode, and A.C. Linnerud..... 259

Number 3, September 1985

USE OF A UTERINE-CELL MONOLAYER CULTURE SYSTEM FOR MICROMANIPULATED BOVINE EMBRYOS
S.A. Voelkel, G.F. Amborski, K.G. Hill, and R.A. Godke..... 271

INDUCTION OF OESTRUS IN SAANEN GOATS AT EARLY BREEDING SEASON BY INTRAVAGINAL PROGESTERONE SPONGES (MAP) OR BY PROSTAGLANDIN $F_{2\alpha}$ INJECTIONS. EFFECT ON DIFFERENT AGE GROUPS
E. Alaçam, S. Öszar, Ç. Kiliçoglu, B. Güven, H. Izgür, T. Tekeli, and P. Glatzel..... 283

SEASONAL VARIATION IN SERUM LEVELS OF STEROID HORMONES AND THEIR RELATION WITH SEMINAL QUALITY AND LIBIDO IN BUFFALO BULLS
N.K. Dixit, S.P. Agarwal, V.K. Agarwal, and P.K. Dwaraknath..... 293

COLLECTION AND PHAGOCYTIC EVALUATION OF UTERINE NEUTROPHILIC LEUKOCYTES
K.L. Anderson, N.A. Hemeida, A. Frank, H.L. Whitmore, and B.K. Gustafsson..... 305

RESPONSE OF INTERSTITIAL CELLS OF THE TESTES IN THE HOUSE MUSK SHREW, Suncus murinus L., TO VARIOUS GONADOTROPINS
K. Furumura, K. Ôta, and A. Yokoyama..... 319

DYSTOCIA DUE TO URINARY BLADDER CARCINOMA IN TWO WATER BUFFALOES (BUBALUS BUBALIS) - CLINICAL CASE REPORT
A.S. Nanda and R.D. Sharma..... 327

RELEASE OF $PGF_{2\alpha}$ DURING PARTURITION AND THE POSTPARTUM PERIOD IN THE EWE
G. Fredriksson..... 331

PRODUCTION OF MONOZYGOTIC TWINS FOLLOWING THE TRANSFER OF BISECTED EMBRYOS IN THE GOATS
Y. Tsunoda, T. Tokunaga, T. Sugie, and M. Katsumata..... 337

EMBRYO TRANSFER AS A MEANS OF CONTROLLING VIRAL INFECTIONS. VI. BLUETONGUE VIRUS-FREE CALVES FROM INFECTIOUS SEMEN
F.C. Thomas, Elizabeth L. Singh, and W.C.D. Hare..... 345

SYNCHRONIZATION OF ESTRUS AND FERTILITY IN GOATS WITH NORGESTOMET EAR IMPLANTS
K.N. Bretzlaff and N. Madrid..... 351

ULTRASONIC EVALUATION OF THE PREOVULATORY FOLLICLE IN THE MARE
R.A. Pierson and O.J. Ginther..... 359

OBSERVATIONS ON IN VITRO DEVELOPMENT OF BOVINE MORULAE IN HAM'S F-10 AND DULBECCO'S PHOSPHATE BUFFERED SALINE SUPPLEMENTED WITH NORMAL STEER SERUM
R. Rajamahendran, R.S. Canseco, F.C. C[illegible]dauskas, and W.E. Vinson..... 369

Number 4, October 1985

THE TIME OF INCREASE IN PLASMA PROGESTERONE DURING PREGNANCY IN MINK (MUSTELA VISON)
E.J. Einarsson..... 375

CLENBUTEROL (PLANIPART™) FOR THE POSTPONEMENT OF PARTURITION IN CATTLE
M.R. Putnam, L.E. Rice, R.P. Wetteman, K.S. Lusby, and B. Pratt..... 385

STEROI[illegible] HORMONE CONCENTRATIONS IN THE FLUID OF BOVINE FOLLICLES RELATIVE TO SIZE, QUALITY AND STAGE OF THE OESTRUS CYCLE
Th.A.M. Kruip and S.J. Dieleman..... 395

EMBRYONIC LOSS IN MARES: PREGNANCY RATE, LENGTH OF INTEROVULATORY INTERVALS, AND PROGESTERONE CONCENTRATIONS ASSOCIATED WITH LOSS DURING DAYS 11 TO 15
O.J. Ginther, M.C. Garcia, D.R. Bergfelt, G.S. Leith, and S.T. Scraba..... 409

ROBERTSONIAN TRANSLOCATION IN A ZEBU BULL
N. Pathiraja, E.O. Oyedipe, and V. Buvanendran..... 419

EFFECTS OF AN ANALOG OF $PGF_{2\alpha}$ (ONO-1052)
ON COWS WITH LUTEINIZED OVARIAN CYSTS
FOLLOWING TREATMENT WITH GNRH ANALOG
(FERTIRELIN ACETATE)
T. Nakao, A. Sugihashi, K. Kawata,
H. Nakamura, J. Shirakawa, M. Iinuma,
M. Tsurubayashi, and S. Horiuchi..... 425

UTERINE INVOLUTION AND POSTPARTUM
OVARIAN ACTIVITY IN NILI-RAVI BUFFALOES
R.H. Usmani, M. Ahmad, E.K. Inskeep,
R.A. Dailey, P.E. Lewis, and G.S. Lewis..... 435

THE EFFECT OF BUFFER OSMOLALITY ON
THE SURVIVAL OF CAT (FELIS CATUS)
SPERMATOZOA AT 5°C
T.E. Glover and P.F. Watson..... 449

PUDENDAL AND CAUDAL RECTAL NERVE
BLOCKS IN THE HORSE - AN ANESTHETIC
PROCEDURE FOR REPRODUCTIVE SURGERY
J. Schumacher, G.R. Bratton, and J.W. Williams..... 457

EFFECTS OF ESTROUS CYCLE AND SEASON
ON ULTRASONIC UTERINE ANATOMY IN MARES
K.E.N. Hayes, R.A. Pierson,
S.T. Scraba, and O.J. Ginther..... 465

Number 5, November 1985

EFFECT OF PMSG DOSAGE ON THE REPRODUCTIVE
PERFORMANCE OF ADULT EWES AND EWE LAMBS BRED
AT A PROGESTAGEN-PMSG SYNCHRONIZED ESTRUS
L. Ainsworth and J.N.B. Shrestha..... 479

A SIMPLIFIED FERTILITY TEST IN THE DAIRY BULL
UTILIZING SUPEROVULATED DAIRY COWS
J.F. Schlehofer and J.R. Lodge..... 489

INSEMINATION MANAGEMENT FOR A ONE-INJECTION
PROSTAGLANDIN $F_{2\alpha}$ SYNCHRONIZATION REGIMEN.
I. ONE DAILY INSEMINATION PERIOD VERSUS
USE OF THE A.M./P.M. RULE
L.V. Gonzalez, J.W. Fuquay, and H.J. Bearden..... 495

INSEMINATION MANAGEMENT FOR A ONE-INJECTION
PROSTAGLANDIN $F_{2\alpha}$ SYNCHRONIZATION SYSTEM.
II. ONE VERSUS TWO INSEMINATIONS FOLLOWING
DETECTION OF ESTRUS
J.N. Wahome, M.J. Stuart, A.E. Smith,
W.R. Hearne, and J.W. Fuquay..... 501

SERUM THYROID HORMONE LEVELS IN MALE BUFFALO CALVES AS RELATED TO AGE AND SEXUAL DEVELOPMENT
I.J. Sharma, S.P. Agarwal, V.K. Agarwal, and P.K. Dwaraknath..... 509

THE EVALUATION OF A LAPAROSCOPIC INSEMINATION TECHNIQUE IN EWES
W.A.C. McKelvey, J.J. Robinson, R.P. Aitken, and G. Henderson..... 519

EFFECT OF HEPARIN AND CHONDROITIN SULFATE ON THE ACROSOME REACTION AND FERTILITY OF BOVINE SPERM IN VITRO
J.J. Parrish, J.L. Susko-Parrish, and N.L. First.... 537

THE USE OF CATHETER-TIPPED PRESSURE TRANSDUCERS FOR CHRONIC MEASUREMENT OF GENITAL TRACT PRESSURES IN THE EWE. I. IMPLANTATION TECHNIQUE, CATHETER PERFORMANCE AND DATA ANALYSIS
P.J. Goddard and W. Edward Allen..... 551

EFFECT OF NUTRITION ON THE LH RESPONSE TO CALF REMOVAL AND GnRh
C.S. Whisnant, T.E. Kiser, F.N. Thompson, and J.B. Hall..... 565

EFFECTS OF PROGESTERONE-IMPREGNATED SPONGE TREATMENT ON PERIPHERAL PLASMA HORMONE LEVELS AND FERTILITY IN THE CYCLIC EWE
H.F. Mac Donnell..... 575

EFFECTS OF 6-MBOA ON REPRODUCTIVE FUNCTION IN PONIES, MICE, RATS AND MINK
O.J. Ginther, D.R. Bergfelt, S.T. Scraba, P.R. Pivonka, and L.C. Nuti..... 587

X TRISOMY IN AN AIREDALE BITCH WITH OVARIAN DYSPLASIA AND PRIMARY ANESTRUS
S.D. Johnston, L.C. Buoen, A.F. Weber, and J.E. Madl..... 597

Number 6, December 1985

PROLONGED SPRING OESTRUS IN MARES: THE USE OF PROGESTOGENS WITH SPECIFIC REFERENCE TO PROLIGESTONE
W. van der Holst, P.H. van Laar, and E.P. Oldenkamp..... 609

REPRODUCTIVE AND METABOLIC HORMONES DURING ESTRUS AFTER FASTING IN HOLSTEIN HEIFERS
G.W. Kazmer, M.A. Barnes, and R.W. Canfield..... 619

EFFECTS OF TIME OF PMSG AND FIXED-TIME GnRH INJECTIONS ON ESTRUS INCIDENCE AND FERTILITY IN PHYSIOLOGICALLY DIFFERENT EWES PRE-TREATED WITH PROGESTOGEN-IMPREGNATED VAGINAL SPONGE DURING THE NONBREEDING SEASON

Y. Fukui, M. Kobayashi, M. Kojima, and H. Ono..... 631

REPEATABILITY OF BLOOD SERUM PROGESTERONE LEVELS IN DAIRY HEIFERS ON DAY 7 OF THE ESTROUS CYCLE

M.L. Reed, J.D. Roussel, and S.H. Seybt..... 643

EMBRYO TRANSFER IN TWO-YEAR-OLD DONOR MARES

M.F. Iuliano and E.L. Squires..... 647

INDUCED PARTURITION IN PIGS WITH ALFAPROSTOL

J.R. Diehl and J.C. Eargle..... 655

EFFECTS OF LIGHTING PROGRAMS ON ONSET OF THE OVULATORY SEASON IN MARES

S.T. Scraba and O.J. Ginther..... 667

EFFECTS OF EGG YOLK AND GLYCEROL LEVELS IN LACTOSE-EDTA-EGG YOLK EXTENDER AND OF FREEZING RATE ON THE MOTILITY OF FROZEN-THAWED STALLION SPERMATOZOA

M.J. Cristanelli, R.P. Amann, E.L. Squires, and B.W. Pickett..... 681

A RAPID WHOLE-MOUNT STAINING PROCEDURE FOR NUCLEI OF MAMMALIAN EMBRYOS

V.G. Pursel, R.J. Wall, C.E. Rexroad, Jr., R.E. Hammer, and R.L. Brinster..... 687

CLEAVAGE OF PIG EMBRYOS AFTER LABELING WITH FLUORESCENT DYES

V.G. Pursel, R.J. Wall, R.E. Hammer, and R.L. Brinster..... 693

MOBILITY OF THE CONCEPTUS AND UTERINE CONTRACTIONS IN THE MARE

G.S. Leith and O.J. Ginther..... 701

THERIOGENOLOGY

MORPHOMETRIC STUDIES ON MINK TESTICULAR TISSUE

C. Sundqvist..... 713

ENHANCING THE RATE OF RECOVERY AND QUALITY OF THE EMBRYOS IN REPEAT BREEDING COWS BY USING A GnRH ANALOGUE INJECTION AT MID-LUTEAL PHASE PRIOR TO BREEDING

M. Thibier, D. Gouffé, O. Jean, J. Valognes, A. Daunizeau, and P. Humblot..... 725

SYNCHRONIZATION OF ESTRUS IN CYCLIC BEEF HEIFERS WITH THE PROSTAGLANDIN ANALOG ALFAPROSTOL

G.H. Kiracofe, L.E. Keay, and K.G. Odde..... 737

AUTHOR INDEX (Volume 24)..... 747

SUBJECT INDEX (Volume 24)..... 751

CONTENTS (Volume 24)..... 759